



# Safety Data Sheet

according to UK REACH Regulation

## Epoxy Resin L 285

Revision date: 07.08.2023

Product code: 110115

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Epoxy Resin L 285

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Binding agent

#### 1.3. Details of the supplier of the safety data sheet

Company name:	R&G Faserverbundwerkstoffe GmbH	
	Composite Technology	
Street:	Im Meißel 7 - 13	
Place:	D-71111 Waldenbuch	
Post-office box:	1145	
	D-71107 Waldenbuch	
Telephone:	+49 (0)7157 5304-60	Telefax: +49 (0)7157 5304-70
e-mail:	info@r-g.de	
Contact person:	Michael Groß	
Internet:	www.r-g.de	
Responsible Department:	Management	

**1.4. Emergency telephone number:** Vergiftungs-Informationen-Zentrale Freiburg  
Tel: +49 (0)761 19240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Acute Tox. 4; H302  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

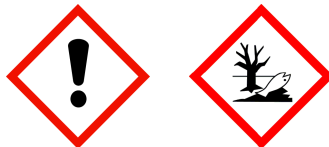
##### GB CLP Regulation

##### Hazard components for labelling

Bis-[4-(2,3-epoxipropoxy)phenyl]propane  
1,2,3-Propanetriol, polymer with 2-(chloromethyl)oxirane

**Signal word:** Warning

##### Pictograms:



##### Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.



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### Precautionary statements

P103	Read carefully and follow all instructions.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P273	Avoid release to the environment.
P308+P311	IF exposed or concerned: Call a doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of waste according to applicable legislation.

### 2.3. Other hazards

Results of PBT and vPvB assessment: not applicable

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			50 - < 55 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
25038-04-4	1,2,3-Propanetriol,polymer with 2-(chloromethyl)oxirane			50 - < 55 %

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
1675-54-3	216-823-5	bis-[4-(2,3-epoxipropoxy)phenyl]propane	50 - < 55 %
	dermal: LD50 = 2000 mg/kg; oral: LD50 = 11400 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100		
25038-04-4		1,2,3-Propanetriol,polymer with 2-(chloromethyl)oxirane	50 - < 55 %
	oral: LD50 = 500 mg/kg		

#### Further Information

There are no additional ingredients present which, according to the supplier's current knowledge, are classified in the are classified as harmful to health or the environment in the applicable concentrations, are PBT or vPvB substances or substances of equivalent concern, or which have an occupational exposure limit and therefore need to be reported in this section.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. Where appropriate artificial ventilation. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin irritation, seek medical treatment.



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#### After contact with eyes

Immediately flush eyes with plenty of water and occasionally lift upper and lower eyelids. Check for contact lenses and remove if present. Seek medical attention if irritation occurs.

#### After ingestion

Rinse the mouth with water. Remove the affected person to fresh air and immobilize in a position that facilitates breathing. If the substance has been swallowed and the affected person is conscious, give small amounts of water to drink. Do not induce vomiting unless specifically instructed to do so by medical personnel. Seek medical attention if symptoms occur.

#### **4.2. Most important symptoms and effects, both acute and delayed**

On eye contact: Causes serious eye irritation.

Inhalative: No particular effects or hazards known.

In case of skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion: Harmful if swallowed.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Provide symptomatic treatment.

In case of ingestion or inhalation larger quantities, contact a poison specialist immediately.

## SECTION 5: Firefighting measures

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Water mist, extinguishing powder, foam, carbon dioxide.

#### **Unsuitable extinguishing media**

jet of water

### **5.2. Special hazards arising from the substance or mixture**

When heated or in a fire, a pressure increase occurs and the container may burst. This material is toxic to aquatic organisms and has long-term effects. Fire-fighting water contaminated with this material must be contained and must not enter water courses, sewers or drains.

Hazardous thermal decomposition products: Carbon dioxide. Carbon monoxide. halogenated compounds.

### **5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### **For non-emergency personnel**

No action should be taken that involves personal risk or has not been adequately trained. Evacuate the area. Deny access to non-essential and unprotected personnel. Do not touch or walk on spilled substance. Avoid inhalation of vapour or mist. Ensure adequate ventilation. Wear respirator if ventilation is inadequate. Put on suitable personal protective equipment.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Collect spillage.

### **6.3. Methods and material for containment and cleaning up**



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#### For containment

Small amount released:

Eliminate leakage if safe to do so. Remove container from the discharge area. Dilute with water and wipe up if water soluble. Alternatively, or if insoluble in water, absorb with an inert dry material and place in a suitable waste container. Dispose of via a recognised waste disposal company.

Large amount released:

Eliminate leakage if safe to do so. Remove container from the release area. Approach the release with the wind. Avoid entry into drains, waterways, cellars or enclosed areas. Flush spilled material to a waste water treatment plant or proceed as follows. Contain spillage with non-combustible absorbent (e.g. sand, earth, vermiculite, diatomaceous earth) and place in a designated container for disposal in accordance with local regulations. Dispose of via a recognised waste disposal company. Contaminated absorbents can be as hazardous as the material released.

#### Other information

Stop leak if safe to do so. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clear contaminated areas thoroughly.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Use personal protection equipment. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this mixture. Avoid contact during pregnancy and while nursing. Avoid release to the environment.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. When using do not eat, drink or smoke. When using do not eat or drink. Avoid contact with eyes and skin. Do not breathe gas/fumes/vapour/spray. Keep away from food, drink and animal feedingstuffs.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

#### Further information on storage conditions

Store according to local regulations. Store only in the original container. Protect from direct sunlight. Store only in dry, cool and well-ventilated areas. Do not store together with incompatible substances and with foodstuffs and beverages. Keep containers tightly closed and sealed until use. Containers that have been opened should be carefully closed and stored upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containers to avoid environmental contamination.

### 7.3. Specific end use(s)

Binding agent

## SECTION 8: Exposure controls/personal protection



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### 8.1. Control parameters

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			
Consumer DNEL, acute		dermal	systemic	3,6 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	0,75 mg/m <sup>3</sup>
Consumer DNEL, acute		oral	systemic	0,75 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	3,6 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,75 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	0,75 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	8,3 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	12,3 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	8,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	12,3 mg/m <sup>3</sup>

#### PNEC values

CAS No	Substance	Value
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	
Environmental compartment		
Freshwater		0,006 mg/l
Marine water		0,0003 mg/l
Freshwater sediment		0,5 mg/kg
Marine sediment		0,5 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,05 mg/kg

#### Additional advice on limit values

No exposure limit value is known.

### 8.2. Exposure controls



#### Appropriate engineering controls

No special ventilation requirements. Good normal room ventilation should be sufficient to limit worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process chambers, local exhaust ventilation or other engineering to keep worker exposure below recommended or regulatory limits.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

If the risk assessment so requires, protective eyewear complying with a recognised standard should be worn to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, then the following protective equipment must be worn unless the assessment requires a higher level of protection: Chemical resistant goggles.

##### Hand protection

Wear suitable gloves.



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Suitable material:

NBR (Nitrile rubber) (730 Camatril), Butyl caoutchouc (butyl rubber) (898 Butoject)

Breakthrough time:: &gt;= 480 min

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Before handling this product, personal protective equipment should be selected based on the task to be performed and the risks involved, and approved by a specialist.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### Environmental exposure controls

Emissions from ventilation and process equipment should be checked to ensure that they meet the requirements of environmental legislation. In some cases, air scrubbers, filters or engineering changes to process equipment will be required to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	light yellow
Odour:	weak characteristic
Odour threshold:	Not available (not measured)

### Test method

Melting point/freezing point:	Not available (not measured)
Boiling point or initial boiling point and boiling range:	Not available (not measured)
Flammability:	Not available (not measured)
Lower explosion limits:	Not available (not measured)
Upper explosion limits:	Not available (not measured)
Flash point:	> 100 °C
Auto-ignition temperature:	Not available (not measured)
Decomposition temperature:	Not available (not measured)
pH-Value:	Not available (not measured)
Viscosity / kinematic:	Not available (not measured)
Water solubility:	practically insoluble
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	Not available (not measured)
Vapour pressure:	not determined
Density:	1,140 g/cm <sup>3</sup>
Relative vapour density:	Not available (not measured)

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

Self-ignition temperature

Solid: Not available (not measured)

Gas: Not available (not measured)



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Oxidizing properties  
Not available (not measured)

### Other safety characteristics

Evaporation rate: Not available (not measured)  
Viscosity / dynamic: 600-900 mPa·s ISO 9371  
(at 25 °C)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, no hazardous decomposition products should be formed.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Harmful if swallowed.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane					
	oral	LD50 mg/kg	11400	Rat	Manufacturer	
	dermal	LD50 mg/kg	2000	Rabbit	Manufacturer	
25038-04-4	1,2,3-Propanetriol,polymer with 2-(chloromethyl)oxirane					
	oral	LD50 mg/kg	500	No data available		

#### Irritation and corrosivity

Causes skin irritation.  
Causes serious eye irritation.

#### Sensitising effects

May cause an allergic skin reaction. (bis-[4-(2,3-epoxipropoxy)phenyl]propane)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

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**Aspiration hazard**

Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane					
	Acute fish toxicity	LC50 1,3 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer	
	Acute crustacea toxicity	EC50 2,1 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer	

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	2.65 - 3.78

**BCF**

CAS No	Chemical name	BCF	Species	Source
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	3 - 31 31.00		

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.  
not applicable**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Waste generation should be avoided or minimised wherever possible. Disposal of this product and its solutions and by-products must be carried out at all times in compliance with environmental protection requirements and waste disposal legislation and the requirements of local authorities. Surplus and products not suitable for recycling should be disposed of through a recognised waste disposal company. Do not discharge untreated waste into the sewerage system unless all applicable regulations of the authorities are complied with. The classification of the product may meet the criteria for hazardous waste.

**Contaminated packaging**

Waste generation should be avoided or minimised wherever possible. Disposal of this product and its solutions





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and by-products must be carried out at all times in compliance with environmental protection requirements and waste disposal legislation and the requirements of local authorities. Surplus and products not suitable for recycling should be disposed of through a recognised waste disposal company. Do not discharge untreated waste into the sewerage system unless all applicable regulations of the authorities are complied with.

Waste and containers must be disposed of in a safe manner. Take care when handling empty containers that have not been cleaned or rinsed. Empty containers and liners may contain product residues. Avoid dispersal and run-off of released material and contact with the soil, water bodies, drains and sewers.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number or ID number:**

UN 3082

**14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane, 1,2,3-Propanetriol, polymer with 2-(chloromethyl)oxirane)

**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

#### Inland waterways transport (ADN)

**14.1. UN number or ID number:**

UN 3082

**14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propane, 1,2,3-Propanetriol, polymer with 2-(chloromethyl)oxirane)

**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



Limited quantity:

5 L

Excepted quantity:

E1

#### Marine transport (IMDG)

**14.1. UN number or ID number:**

UN 3082

**14.2. UN proper shipping name:**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propan, 1,2,3-propanetriol, polymer with 2-(chloromethyl)oxirane)

**14.3. Transport hazard class(es):**

9

**14.4. Packing group:**

III

Hazard label:

9



Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-F



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Segregation group:	1 - acids
<b>Air transport (ICAO-TI/IATA-DGR)</b>	
<b>14.1. UN number or ID number:</b>	UN 3082
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxy)phenyl]propan, 1,2,3-propanetriol, polymer with 2-(chloromethyl)oxirane)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9 
Excepted quantity:	E1
<b>14.5. Environmental hazards</b>	
ENVIRONMENTALLY HAZARDOUS:	Yes 
Danger releasing substance:	Bis-[4-(2,3-epoxipropoxy)phenyl]propane
<b>14.6. Special precautions for user</b>	
No information available.	
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	
not applicable	

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): 0,00%

Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

#### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,13,14,15.

### Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

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CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*